

February 7, 2003

RE: Madison Precision Products, Inc.

TO: Interested Parties / Applicant

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision - Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures

February 7, 2003

Mr. Michael Wertz
Madison Precision Products, Inc.
Route 1, Box 29, 400 N. & Michigan Road
Madison, IN 47250

Re: 077-16723-00019
Notice Only Change to
MSOP 077-11368-00019

Dear Mr. Wertz:

On February 10, 2000, Madison Precision Products, Inc. was issued a permit for the operation of an aluminum part manufacturing plant for the automotive industry. A letter requesting a notice only change to this permit was received by IDEM, OAQ, on October 30 2002.

Madison Precision Products, Inc. plans to make the following changes to units B-4, B-6, B-7 and B-8 of their process (bold has been added and strikeout has been omitted):

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (1) One (1) mechanical shotblasting unit, identified as B1, operation began in May 1989, with a maximum blast rate of 230 pounds per hour, blasting #50 steel grit, and controlled by a cartridge filter.
- (2) One (1) mechanical shotblasting unit, identified as B2, operation began in July 1993, with a maximum blast rate of 320 pounds per hour, blasting aluminum, and controlled by a cartridge filter.
- (3) One (1) mechanical shotblasting unit, identified as B4, operation began in July 1994, with a maximum blast rate of 140 pounds per hour, blasting ~~#40 chromital stainless steel~~ **zinc cut wire**, and controlled by a baghouse.
- (4) One (1) pneumatic shotblasting unit, identified as B5, operation began in February 1994, with a maximum blast rate of 100 pounds per hour, blasting glass beads, and controlled by a baghouse.
- (5) One (1) mechanical shotblasting unit, identified as B6, operation began in 1996, with a maximum blast rate of 320 pounds per hour, blasting ~~sand~~ **carbon steel cut wire**, and ~~controlled by cartridge filters~~ **with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.**
- (6) One (1) mechanical shotblasting unit, identified as B7, with a maximum blast rate of 405 lbs/hr of #50 steel ~~using a cartridge filter dust collector with no outside stack~~ **with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.**
- (7) One (1) mechanical shot blasting unit, identified as B-8, with a maximum blast rate of 1,375 pounds of steel per hour, **blasting carbon steel cut wire**, controlled by a wet venturi scrubber **that exhaust inside the plant.**

PTE OF PM & PM ₁₀ FROM UNITS					
		EXISTING		AFTER MODIFICATION	
UNIT	ABRASIVE	PM (TPY)	PM ₁₀ (TPY)	PM (TPY)	PM ₁₀ (TPY)
B-4	Steel Shot	2.45	2.11		
B-4	Zinc Cut Wire			6.31	5.43
B-6	Sand	57.47	40.23		
B-6	Carbon Cut Steel Wire			5.61	3.93
B-8	Steel Shot	24.01	20.48		
B-8	Carbon Cut Steel Wire			24.01	20.48
TOTAL(PM)		84.01	62.82		
TOTAL(PM₁₀)				35.83	29.84

The total PTE of PM and PM₁₀ from the three units after the change of abrasives is less than the PTE before the change. Therefore, this revision qualifies as a notice only change under 326 IAC 2-6.1-6 (d)(5) Minor Source Operating Permit Program, Permit Revisions; Modifications involving a pollution control project or pollution prevention project as defined in 326 IAC 2-1.1-1 that do not result in an increase in the potential to emit any regulated pollutant greater than the thresholds in 326 IAC 2-1.1-3(d))1) or a significant change in the method or methods to demonstrate or monitor compliance.

The effected sections of the permit shall be revised to reflect these approved changes. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this revision to the front of the original permit

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Walter Habeeb, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (317) 232-8422.

Sincerely,
Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

WVH

cc: File -Jefferson County
Air Compliance Section Inspector - D. J. Knotts
Compliance Data Section - Karen Nowak
Administrative and Development - Sara Cloe
Technical Support and Modeling - Michele Boner

MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

**Madison Precision Products, Inc.
94 East 400 North
Madison, Indiana 47250**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

Operation Permit No.: MSOP 077-11368-00019	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: February 10, 2000

First Notice -only Change 077-12227, issued on May 26, 2000

Second Notice -only Change 077-14856, issued on September 25, 2001

Third Notice-only Change 077-16723-00019	Pages Affected: 4,17
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: February 7, 2003

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary source for aluminum part manufacturing for the automotive industry.

Authorized Individual: Mr. Louis Alexander
Source Address: 94 East 400 North, Madison, Indiana 47250
Mailing Address: Route 1, Box 29, 400 North and Michigan Road, Madison, Indiana 47250
Phone Number: 812-273-4702
SIC Code: 3363
County Location: Jefferson
County Status: Attainment for all criteria pollutants, except SO₂
Unclassifiable for SO₂
Source Status: Minor Source, under PSD Rules;
Minor Source, Section 112 of the Clean Air Act

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (1) One (1) mechanical shotblasting unit, identified as B1, operation began in May 1989, with a maximum blast rate of 230 pounds per hour, blasting #50 steel grit, and controlled by a cartridge filter.
- (2) One (1) mechanical shotblasting unit, identified as B2, operation began in July 1993, with a maximum blast rate of 320 pounds per hour, blasting aluminum, and controlled by a cartridge filter.
- (3) One (1) mechanical shotblasting unit, identified as B4, operation began in July 1994, with a maximum blast rate of 140 pounds per hour, blasting zinc cut wire, and controlled by a baghouse.
- (4) One (1) pneumatic shotblasting unit, identified as B5, operation began in February 1994, with a maximum blast rate of 100 pounds per hour, blasting glass beads, and controlled by a baghouse.
- (5) One (1) mechanical shotblasting unit, identified as B6, operation began in 1996, with a maximum blast rate of 320 pounds per hour, blasting carbon steel cut wire, with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.
- (6) One (1) mechanical shotblasting unit, identified as B7, with a maximum blast rate of 405 lbs/hr, blasting # 50 steel shot, with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.
- (7) One (1) mechanical shot blating unit, identified as B-8, with a maximum blast rate of 1,375 pounds of carbon cut steel wire per hour, exhausting through a wet venturi scrubber that exhaust inside the plant.
- (8) Seven (7) melt furnaces, identified as P1 - P7, with maximum heat input capacities of 2.53, 2.53, 3.0, 2.53, 0.68, 0.68, and 2.8 million British Thermal Units per hour (mmBtu/hr), and maximum aluminum melting capacities of 1500, 1500, 1500, 1500, 450, 450, and 1300 pounds per hour, respectively.
- (9) Two (2) melt furnaces, identified as P8 and P9, fueled by natural gas only, combined heat

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (1) One (1) mechanical shotblasting unit, identified as B1, operation began in May 1989, with a maximum blast rate of 230 pounds per hour, blasting #50 steel grit, and controlled by a cartridge filter.
- (2) One (1) mechanical shotblasting unit, identified as B2, operation began in July 1993, with a maximum blast rate of 320 pounds per hour, blasting aluminum, and controlled by a cartridge filter.
- (3) One (1) mechanical shotblasting unit, identified as B4, operation began in July 1994, with a maximum blast rate of 140 pounds per hour, blasting zinc cut wire, and controlled by a baghouse.
- (4) One (1) pneumatic shotblasting unit, identified as B5, operation began in February 1994, with a maximum blast rate of 100 pounds per hour, blasting glass beads, and controlled by a baghouse.
- (5) One (1) mechanical shotblasting unit, identified as B6, operation began in 1996, with a maximum blast rate of 320 pounds per hour, blasting carbon steel cut wire, with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.
- (6) One (1) mechanical shotblasting unit, identified as B7, with a maximum blast rate of 405 lbs/hr, blasting # 50 steel shot, with PM emissions venting to the wet venturi scrubber that serves the mechanical shot blasting unit identified as B-8.
- (7) One (1) mechanical shot blating unit, identified as B-8, with a maximum blast rate of 1,375 pounds of carbon steel cut wire per hour, exhausting through a wet venturi scrubber that exhaust inside the plant.

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to CP077-5045 and 326 IAC 6-3-2, the particulate matter (PM) from shotblasting units:

- (1) B1 shall not exceed 0.82 pounds per hour when operating at a process weight rate of 0.115 tons per hour.
- (2) B2 shall not exceed 1.2 pounds per hour when operating at a process weight rate of 0.16 tons per hour.
- (3) B4 shall not exceed 0.59 pounds per hour when operating at a process weight rate of 0.07 tons per hour.
- (4) B5 shall not exceed 0.47 pounds per hour when operating at a process weight rate of 0.05 tons per hour.
- (5) B6 shall not exceed 1.2 pounds per hour when operating at a process weight rate of 0.16 tons per hour.
- (6) B7 shall not exceed 1.4 pounds per hour when operating at a process weight rate of 0.201 tons per hour.
- (7) B8 shall not exceed 3.19 pounds per hour when operating at a process weight rate of 0.688 tons per hour.

The pounds per hour limitations were calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation: